

FEDERAL GRANT OPPORTUNITIES

updated 11/20/09

new opportunities or changes highlighted

Open grants & deadlines:

- **FY 2009 Global Climate Change Mitigation Incentive Fund (GCCMIF)**
- **Federal Loan Guarantees for Projects that Employ Innovative Energy Efficiency, Renewable Energy, & Advanced Transmission & Distribution Technologies** *(September 14, 2009-August 24, 2010; November 13, 2009-December 31, 2010)*
- **Emerging Frontiers in Research & Innovation 2010** *(November 13, 2009 –March 31, 2010)*
- **Energy Efficiency & Conservation Block Grant Competitive Solicitation: Retrofit Ramp-Up & General Innovation Fund Programs** *(November 19, December 14)*
- **Support of Advanced Coal Research at U.S. Colleges & Universities** *(November 24, 2009)*
- **Workforce Training for the Electric Power Sector** *(November 30, 2009)*
- **CHE-DMR-DMS Solar Energy Initiative** *(December 8, 2009 – March 10, 2010)*
- **Smart Way Clean Diesel Finance Program FY 2009/2010 RFP** *(December 8, 2009)*
- **Clean Diesel Emerging Technology Funding Assistance Program, FY 2009/2010 RFP** *(December 8, 2009)*
- **National Clean Diesel Funding Assistance Program FY 2009/2010 RFP** *(December 8, 2009)*
- **Federal Loan Guarantees for Electric Power Transmission Infrastructure Investment Projects** *(December 10, January 25)*
- **Urban Forest Innovation Grants – RFP** *(December 15, 2009)*
- **Building Healthy Communities Grant Program** *(December 15)*

- **7th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity, & the Planet** *(January 4, 2010)*
- **Environmental Justice Small Grants Program** *(January 8, 2010)*
- **Smart Grid Investment Grant Program** *(February 10, March 3)*
- **Energy for Sustainability** *(March 10, 2010)*

FY 2009 Global Climate Change Mitigation Incentive Fund (GCCMIF)

- Applications due: Rolling basis
- Visit <http://www.eda.gov/> for additional information and for any programming changes
- GCCMIF established to strengthen the link between economic development and environmental quality
- GCCMIF finances projects that foster economic development by advancing the green economy in distressed communities
- Applications are competitive, based on the Economic Development Association's standard eligibility and distress criteria, investment policy guidelines, and funding priority considerations
- Projects must achieve the same job and capital investment outcomes as traditional EDA investments
- Project must be one of the following:
 - Renewable energy (wind, solar, biomass, and geothermal)
 - Energy efficiency
 - Reuse/Recycling/Restoration (reuse of a given product or production of a new or innovative product for recyclable materials; also includes ecosystem restoration)
 - Green building (new construction or renovation certified by USGBC in LEED or comparable certificate program)
- Must result with outputs:
 - Development and/or manufacture of green end-product that furthers or contributes to sustainability and/or environmental quality (activity, item, plan, or program)
 - Greening of an existing function or process (investments that result in green enhancements to the resource, energy, water, and/or waste efficiency of an existing function or process)
 - Creation or renovation of a green building

ARRA - Federal Loan Guarantees for Projects that Employ Innovative Energy Efficiency, Renewable Energy, & Advanced Transmission & Distribution Technologies

Funding Opportunity Announcement (FOA) # DE-FOA-0000140

- Application due dates:
 - Parts I & II submission dates depend on rounds
 - Part I: September 14, 2009 – August 24, 2010
 - Part II: November 13, 2009 – December 31, 2010
- Submission of applications for loan guarantees under Title XVII of the Energy Policy Act of 2005 in support of debt financing for projects in the U.S. that employ energy efficiency, renewable energy, and advanced transmission and distribution technologies that constitute new or significantly improved technologies that are not a commercial technology
- DOE will make up to \$8.5 billion in loan guarantee authority available
- Despite the due dates, the solicitation will remain open until the aggregate \$8.5 billion in loan guarantee authority is fully obligated
- Visit <http://www.fedconnect.net/> to view the full FOA, and consult <http://www.energy.gov/>, <http://www.whitehouse.gov/omb/> or <http://www.recovery.gov/> for additional information
- Only 3 categories of projects that begin construction no later than 9/30/11 are eligible under Section 1705 of Title XVII and may have their credit subsidy costs covered by appropriated funds under the Recovery Act
 1. Renewable energy systems, including incremental hydropower, that generate electricity or thermal energy and facilities that manufacture related components
 2. Electric power transmission system projects, including upgrading projects
 3. Leading edge biofuel projects that will use technologies performing at the pilot or demonstration scale that the Secretary determines are likely to become commercial technologies and will produce transportation fuels that substantially reduce life-cycle greenhouse gas emissions compared to other transportation fuels
- Eligible projects in categories listed below and which fall within 1 of the 2 distinct project types described:
 1. Alternative fuel vehicles
 2. Biomass
 3. Efficient electricity transmission, distribution, and storage
 4. Energy efficient building technologies and applications
 5. Geothermal
 6. Hydrogen and fuel cell technologies
 7. Energy efficiency projects
 8. Solar
 9. Wind & hydropower

- Technology categories for 1705 eligible projects are limited to renewable energy systems projects, electric power transmission systems projects, and leading edge biofuels projects
- Per DOE, eligible projects under categories 1, 4, 6, & 7 generally do not constitute 1705 eligible projects for which the credit subsidy costs may be paid for out of funds appropriated under the Recovery Act to pay for the costs of loan guarantee issued under the Section 1705 program
- Project types: manufacturing or stand-alone; see FOA for list of primary goals and objectives for these project types

Emerging Frontiers in Research & Innovation (EFRI) 2010

- Letter of intent due October 9, 2009
- Preliminary proposal due November 13, 2009
- Full proposal due March 31, 2010
- Information webcast on September 17, 2009 at <http://www.nsf.gov/eng/efri/>
- See <http://www.nsf.gov/pubs/2009/nsf09606/nsf09606.pdf>
- \$29 million expected to be available in FY 2010, pending the availability of funds
 - Each team may receive up to \$500,000 per year up to 4 years, pending availability
 - 14, 4-year awards expected
- Cost sharing not required
- Eligibility: U.S. academic institutions which perform research and with degree-granting educational programs in disciplines normally supported by NSF; these organizations are eligible to be the lead organization
 - Applicants are encouraged to form synergistic collaborations with government labs, industrial researchers, and scientists and engineers at foreign organizations where appropriate
- Program seeks proposals with potentially transformative ideas that represent an opportunity for a significant shift in fundamental engineering knowledge with a strong potential for long-term impact on national needs or a grant challenge
- *Renewable Energy Storage (RESTOR)*
 - Fundamental experimental and theoretical research needed to develop a transformative understanding of transport and reaction mechanisms and to uncover the underlying principles that govern the complex and interrelated mechanisms of electron and ion transfers, material decomposition, and energy conversion processes for large scale storage
 - 5 elements to be addressed:
 - R1: Cost effectiveness and technical feasibility of a large scale (10 MW minimum) energy storage capability of a solar and/or wind energy conversion site
 - R2: Identification of key existing barriers in achieving goals in R1
 - R3: Multidisciplinary approaches needed to overcome the barriers identified in R2 in order to achieve the goals in R1, including alternative/contingency plans when the main proposed approaches fail. Interdisciplinary synergies in the form of well-integrated systems approach to research are vital.
 - R4: Outcomes and impacts the proposed work will have on the EFRI topic as well as other applications
 - R5: Potential impact of the proposed work to address major societal needs, to revolutionize the area of large scale energy storage/generation, as well as to improve U.S. competitiveness in the global economy through advanced technology development

- *Science in Energy & Environmental Design (SEED): Engineering Sustainable Buildings*
 - Engage engineers, architects, and physical, biological, and social scientists to develop fundamental concepts to create the breakthrough innovations in building materials, models, and theories that will lay the foundation for the next generation of advanced sustainable building systems
 - Breakthrough research needed in: Materials and Sensing, Modeling and Simulation, and Concepts for Anatomy and Interdependence
 - Required SEED Elements:
 - S1: Define a unifying intellectual focus for synergistic innovation involving interdisciplinary research on the EFRI SEED topic or their integration
 - S2: Provide a unique framework through which components of diverse disciplines can connect and relate to each other
 - S3: Address the need for interdisciplinary research
 - S4: Address the anticipated research outcome and questions on how the resulting new discoveries will provide answers to problems leading to transformative science for next generation sustainable buildings
 - S5: Identify new motivations, new instruments and tools, and new validation vehicles for advanced sustainable vehicles

ARRA – Energy Efficiency & Conservation Block Grant (EECBG) Competitive Solicitation: Retrofit Ramp-Up & General Innovation Fund Programs

- FOA #: DE-FOA-0000148
- (Voluntary) letter of intent due November 19, 2009
- Application due December 14, 2009
- Objective: To stimulate activities that move beyond traditional public awareness campaigns, program maintenance, demonstration projects, and other one-time strategies and projects.
- Projects should:
 - Fundamentally and permanently transform energy markets in a way that make energy efficiency and renewable energy the options of first choice
 - Sustain themselves beyond the grant money and grant period by designing a viable strategy for program sustainability into the overall program plan
- DOE is seeking projects which:
 - Leverage participation and support of multiple local jurisdictions, regional planning agencies, & state energy offices
 - Priorities energy efficiency and/or energy conservation as first in loading order before investments are made in a new generation; DOE is interested in applications that integrate cost-effective renewable with efficiency
 - Move beyond the planning stage and are ready for implementation
 - Clearly articulate and demonstrate the ability to achieve measurable stretch goals and that have the potential to make an impact at the regional or national level
 - Maximize the creation and/or retention of American jobs
- *Topic Area 1: Retrofit Ramp-Up Program*
 - Projects should:
 - Deliver verified energy savings from a variety of projects in the local jurisdiction of the applicant, with emphasis on energy improvements in residential, commercial, industrial, and public buildings
 - Achieve broader market participation and greater efficiency savings from building retrofits
 - Highly leverage grant funding
 - Sustain themselves by designing a viable strategy for program sustainability
 - Serve as pilot building retrofit programs that demonstrate the benefits of gaining economy of scale
 - Serve as examples of comprehensive community-scale energy efficiency approaches that could be replicated in other communities across the country
 - Must be highly leveraged – goal of at least 5:1 per dollar awarded
 - DOE is looking for whole neighborhood retrofits
 - Eligibility:

- States
 - Formula-eligible units of local government
 - Formula-eligible Indian tribes
 - Entities eligible under Area 2
 - Governmental, quasi-governmental, or non-governmental non-profit organizations authorized by and on behalf of entities described in #1-#4
- Up to \$390.04 million available for 8-20 awards
- Floor of \$5 million, ceiling of \$75 million
- 36 month period of performance
- *Topic Area 2: The General Innovation Fund for Local Governments & State-Recognized Tribes Not Eligible for Direct Formula Grants*
 - Programs should:
 - Contribute to meaningful and sustainable market transformation (in other words, projects are broadly replicable and scalable and/or making a significant benefit to other units of local government)
 - Highly leverage DOE assistance to achieve significant energy and cost savings and create jobs
 - Result in new or innovative approaches to the EECBG program (goals of the program are to reduce fossil fuel emissions, reduce total energy use, and increase energy efficiency)
 - Be capable of being financially self-sustaining beyond the funding period
 - Allowable activities:
 - Building energy audits
 - Financial incentive programs for energy efficiency improvements
 - Energy efficiency retrofits
 - Energy efficiency & conservation programs for buildings and facilities
 - Development and implementation of transportation programs to conserve energy
 - Building codes and enforcement
 - Energy distribution technologies for energy efficiency
 - Material conservation programs, including source reduction, recycling, and recycled content procurement programs
 - Reduction and capture of methane and greenhouse gases
 - Replacement of traffic signals and street lighting with energy efficient lighting technologies
 - Renewable energy technologies on government buildings
 - Simple equipment replacement efforts, such as CFL replacement or give-away programs, boiler replacements, and LED traffic light replacements, should not be part of the program
 - Programs that include a broad and cohesive partnership structure that effectively leverages DOE financial assistance will be considered more favorably
 - What NOT to propose:

- Development and implementation of an energy efficiency and conservation strategy or technical consultant services to assist the eligible entities in the development of the energy efficiency and conservation strategy
- Programs for the design and construction of new energy-efficient buildings
- Technology demonstration programs without market transformation
- Programs which focus exclusively or largely on renewable energy technology for buildings without integrating comprehensive energy efficiency and conservation activities
- Programs which take existing policies and make incremental improvements over business as usual efforts
- Programs in the planning stages and are not ready for implementation
- Eligibility:
 - A unit of local government that is not an eligible entity; a governmental, quasi-governmental, or non-governmental not-for-profit organization authorized by and behalf of a unit of local government that is not an eligible entity; a consortia of units of local governments that are not eligible entities
 - States, formula-eligible units of local government, and formula-eligible Indian tribes are ineligible
- Up to \$63.68 million available for 15-60 awards
- Floor of \$1 million, ceiling of \$5 million
- 36 month period of performance

Support of Advanced Coal Research at U.S. Colleges & Universities

- Application due November 24, 2009
- DE-FOA-0000146
- Visit <http://www.fedconnect.net/> for additional information
- Research limited to:
 - Computational Energy Science
 - Material Science
 - Novel Materials for Sensing or Monitoring in Extreme Environments of Fossil Energy Systems
- \$2.04 million expected to be available for 6-7 awards
- \$300,000 ceiling
- 36 month period of performance

ARRA – Workforce Training for the Electric Power Sector

- Funding Opportunity Announcement (FOA) #: DE-FOA-0000152
- Application due November 30, 2009
- Total of \$100 million expected to be available
- Eligible applicants: all domestic entities, except for other federal agencies, Federally Funded Research & Development Center Contractors, and non-profit organizations as described in section 501(c)(4) of the Internal Revenue Code of 1986 that engaged in lobbying activities after December 31, 1995.
- Up to three year period of performance
- See <http://www.fedconnect.net/> for additional information
- Objective: to facilitate the development of a well-trained, highly-skilled electric power sector workforce

- *Topic A: Developing and Enhancing Workforce Training Programs for the Electric Power Sector*
 - Develop new training programs for the electric power sector, with the focus on achieving a national, clean-energy smart grid
 - Includes the entire electricity delivery system (transmission & distribution), and related electrical equipment manufacturing
 - Applicant must:
 - Identify skills deficiencies that will be addressed
 - Demonstrate familiarity with the electric power system and needed skills sets
 - Be able to support specialized training
 - Demonstrate the ability to/discuss approach/plan to:
 - Establish and maintain strong partnerships with electric power companies and/or smart grid technology manufacturers and demonstrate how these partnerships will enhance national training efforts
 - Enhance transportability of credentials geographically and within all segments of the industry
 - Expand training capacity
 - Build awareness about training programs and smart grid careers
 - Maintain effective relationships with state agencies, local communities, and other stakeholders to help shape future training partnerships
 - Up to \$750,000 (federal share) per award
 - 25-35 awards total, including subtopic award
 - 20% cost share required, except for academic institutions (no less than 10% cost share required)

- *Subtopic (within Topic A): Strategic Training & Education in Power Systems (STEPS)*
 - Applications for STEPS to be evaluated separately from Topic A
 - Objective: to support educators at universities and colleges in developing new curriculum and training activities related to the achievement of the next-generation electric power workforce with solid technical understanding and innovativeness to address energy challenges
 - Applications may include the development of certificate programs for training technicians and teachers in science, technology, engineering, and math, with focus on electric power systems
 - Up to \$2.5 million (federal share) per award
 - 8-10 awards expected
 - 20% cost share, except for academic institutions (no less than 10% cost share accepted)

- *Topic B: Smart Grid Workforce Training*
 - To provide training for electric power sector personnel, including electricity delivery system (transmission & distribution) and related electrical equipment manufacturing
 - Individuals eligible for training include workers that:
 - Increase workforce capacity and capability of electric power companies and smart grid technology manufacturers to implement ARRA electricity-related activities
 - Address skills shortages in the power sector, especially in the area of transmission planners, system operators, utility energy efficiency staff, lineworkers, electricians, and technicians
 - Need updated training to support a national clean-energy smart grid
 - Applications should include commitment letters from electric power companies, labor organizations with qualified apprenticeship programs, and/or smart grid technology manufacturers
 - Up to \$5 million (federal share) per award
 - 15-20 awards expected
 - 50% cost share

CHE-DMR-DMS Solar Energy Initiative

- Preliminary proposal due December 8, 2009
- Full proposal due March 10, 2010
- See <http://www.nsf.gov/pubs/2009/nsf09604/nsf09604.pdf> for additional information
- 3-10 expected awards at \$500,000/year; anticipated total funding for program is \$7 million
- Cost sharing not required
- Purpose: to support interdisciplinary efforts by groups of researchers to address the scientific challenges of highly efficient harvesting, conversion, and storage of solar energy
- Research will investigate novel methods for solar energy harvesting and conversion with potential efficiency substantially beyond the current technology
- Eligible applicants: universities or two- or four-year colleges accredited in and having a campus in the U.S., acting on behalf of faculty members
 - There must be 3+ co-principal investigators: 1 researcher in chemistry, 1 researcher in materials, and 1 researcher in mathematical sciences
- Applicants should ensure the project doesn't overlap other ongoing federally-funded research projects

Smart Way Clean Diesel Finance Program FY 2009/2010 Request for Proposals (RFP)

- RFP closes December 8, 2009
- Visit http://www.epa.gov/air/grants/final_smartway_rfp_10-9-09.pdf
- RFP # EPA-OAR-OTAQ-09-13
- RFP seeks proposals for projects that reduce diesel emissions through the creation of national, tribal, regional, state, or local finance programs
- Finance programs include those that provide the loan recipient with a specific financial incentive to purchase or lease eligible retrofitted vehicles or equipment (loan guarantees, issuance of tax-exempt or tax bonds for low cost loans, revolving loans, or leases)
- Eligible diesel emission reductions include verified emission control technologies such as retrofit devices, cleaner fuels, and engine upgrades; verified idle reduction technologies; verified aerodynamic technologies; low rolling resistance tires; certified engine repowers &/or vehicle or equipment replacement
- Eligible diesel vehicles, engines, and equipment include buses; medium or heavy duty trucks; marine engines; locomotives or non-road engines; equipment or vehicles used in construction, handling of cargo (port or airport included), agriculture, mining, or energy production (including stationary generators or pumps)
- Eligible entities: regional, state, local, or tribal agencies or port authorities with jurisdiction over transportation or air quality, and non-profits that represent or provide pollution reduction or educational services to persons or organizations that own or operate diesel fleets or have, as their principal purpose, the promotion of transportation or air quality
- EPA will consider funding finance programs that involve:
 - Verified retrofit technologies – up to 100% of cost of eligible exhaust controls and engine upgrades
 - Verified/certified cleaner fuel use – the cost differential between the eligible cleaner fuels and conventional diesel fuels
 - Verified idle reduction technologies – up to 100% of the cost
 - Verified aerodynamic technologies and low rolling resistance tires – up to 100%
 - Certified engine repower – up to 100%
 - Certified vehicle/equipment replacement
 - Up to 100% of the cost of pre-2007 used vehicle or equipment retrofitted with the verified emission control technology
 - Up to 100% of the cost of newer, cleaner (MY2007 or newer) vehicle or equipment with the verified emission control technology or certified engine configuration (replacement and scrappage conditions apply to the financing of new vehicles, engines, and equipment)
 - School bus replacement – up to 100% of the cost of buses that meet at least EPA's 2007 emissions levels for heavy-duty highway vehicles (replacement and scrappage conditions apply to financing of new school buses)

- EPA will evaluate on the following areas:
 - Health benefits
 - Cost-effectiveness
 - Serve areas:
 - With high population density
 - With poor air quality
 - That receive a disproportionate quantity of air pollution from diesel fleets, including truck stops, ports, rail yards, terminals, and distribution centers
 - That use community-based multi-stakeholder collaborative process to reduce toxic emissions
 - Include a certified engine configuration or verified technology that has a long-expected useful life
 - That maximize the useful life of any certified engine configuration or verified technology used or funded by the eligible entity
 - Conserve diesel fuel
 - Utilize ultra low sulfur diesel fuel ahead of EPA's mandate
- \$12 million expected available, to be distributed in 1-6 cooperative agreements ranging from \$2 million - \$12 million

Clean Diesel Emerging Technologies Funding Assistance Program, FY 2009/2010

RFP

- RFP closes December 8, 2009
- Visit http://www.epa.gov/air/grants/emergtech_10_14_09.pdf for more information
- RFP # EPA-OAR-OTAQ-09-12
- RFP due December 8, 2009
- Proposals for projects that achieve significant reductions in diesel emissions in terms of tons of pollution produced and diesel emissions exposure, especially in areas designated as poor air quality areas
- Only eligible diesel reduction solutions that may be proposed are the use of emerging emission control technologies as listed on the National Clean Diesel Campaign's Emerging Technologies list (<http://www.epa.gov/otaq/diesel/prgemerglist.com>)
- Eligible diesel vehicles, engines, and equipment includes buses, medium- or heavy-duty trucks, marine engines, locomotives, and non-road engines, equipment, or vehicles used in construction, handling of cargo (port or airport), agriculture, mining, or energy production (including stationary generators and pumps)
- Eligible entities: regional, state, local, or tribal agencies or port authorities with jurisdiction over transportation or air quality, and non-profit organizations that represent or provide pollution reduction or educational services to persons or organizations that own or operate diesel fleets or have, as their principal purpose, the promotion of transportation or air quality
- \$8 million expected to be available for 6-10 cooperative agreements ranging from \$500,000 to \$1.5 million

National Clean Diesel Funding Assistance Program FY 2009/2010 RFP

- RFP closes December 8, 2009
- Visit http://www.epa.gov/air/grants/2009_10_6_final-dera.pdf for additional information
- RFP # EPA-OAR-OTAP-09-10
- Proposals sought for projects that achieve significant reductions in diesel emissions in terms of tons of pollution produced and diesel emissions exposure, particularly from fleets operating in areas designated as poor air quality areas
- Eligible diesel emission reduction solutions: verified emission control technologies such as retrofit devices, cleaner fuels, and engine upgrades, verified idle reduction technologies, verified aerodynamic technologies and low rolling resistance tires, certified engine repowers, and/or vehicle or equipment replacement
- Eligible diesel vehicles, engines, and equipment include: buses, medium- or heavy-duty trucks, marine engines, locomotives and non-road engines, and equipment or vehicles used in construction, handling or cargo (at port or airport), agriculture, mining, or energy production (including stationary generators and pumps)
- Eligible entities include regional, state, local, tribal agencies, or port authorities with jurisdiction over transportation and/or air quality, and non-profit organizations that represent or provide pollution reduction or educational services to persons or organizations that own or operate diesel fleets or have, as their principal purpose, the promotion of transportation or air quality
- Total funding estimated at \$64 million
- EPA will fund:
 - Verified retrofit technologies – up to 100% of the cost of eligible exhaust controls and engine upgrades
 - Verified/certified cleaner fuel use – cost differential between the eligible cleaner fuels and conventional diesel fuels
 - Verified idle reduction technologies – up to 100%
 - Verified aerodynamic technologies and low rolling resistance tires – up to 100%
 - Certified engine repower – up to 75% of cost (labor & equipment)
 - Certified vehicle equipment replacement – incremental cost of a newer, cleaner vehicle or piece of equipment, up to 25% of the cost of eligible replacement vehicle or piece of equipment (excludes school buses)
 - School bus replacement
 - For replacements that meet EPA's 2010 emission levels for heavy-duty highway vehicles, the incremental cost of a newer, cleaner school bus, up to 50% of the cost of an eligible replacement school bus
 - For replacement buses that meet EPA's 2007 emissions levels for heavy duty highway vehicle, the incremental cost of a newer, cleaner school bus up to 25% of the cost of an eligible replacement school bus
- No funds awarded shall be used to fund the cost of emission reductions mandated under federal, state, tribal, or local law

- Single proposal may target multiple fleets, fleet types, and/or diesel emission reduction solutions
- Entities in Indiana are eligible to request funding between \$250,000 to \$1.5 million

ARRA – Federal Loan Guarantees for Electric Power Transmission Infrastructure Investment Projects

FOA # DE-FOA-0000132

- Submission due dates:
 - Part I: September 14, 2009
 - 1st Round Part II: October 26, 2009
 - 2nd Round Part II: December 10, 2009
 - 3rd Round Part III: January 25, 2010
- Purpose: Submission of applications for loan guarantees from U.S. Department of Energy under Section 1705 of Title XVII of the Energy Policy Act of 2005 in support of debt financing for transmission infrastructure investment projects in the U.S.
- ARRA provides that \$5,965,000,000 in appropriated funds be made available until expended to pay credit subsidy costs of loan guarantees issued under Section 1705 of Title XVII for certain renewable energy systems, electric transmission systems, and leading edge biofuels projects
- Eligible projects
 - Shall consist of a complex electric transmission systems project located in U.S. that utilizes a commercial technology; is reasonably likely, at the time of the submission of the Part I application, to commence construction on/before 9/30/11
 - Project cannot be financed from private sources on standard commercial terms
 - Project must meet at least one of the following criteria:
 - Involves new or upgraded lines of at least 100 mi. of 500 kilovolts or higher or 150 mi. of 345 kV
 - Project has at least 30 mi. of transmission cable under water
 - Project has high voltage direct current (DC) component
 - Project is a major interregional connector
 - Project designated as a National Interest Electrical Transmission Corridor by DOE under EAct of 2005
 - Project is associated with offshore generation
 - Project mitigates a substantial reliability risk for a major population center
 - A set of improvements to an integrated system within a state or region that together aggregate to meet criteria
 - Please see FOA for additional requirements and for information on eligible lenders

2010 U.S. Forest Service National Urban & Community Forestry Challenge Cost-Share Grant Program: Urban Forest Innovation Grants – RFP

- Pre-application due: December 15, 2009
 - See FOA for requirements
 - Only full-proposals that have been requested by the USDA Forest Service will be considered for funding, out of those entities selected in the pre-application process; the tentative deadline for full proposals is March 17, 2010
- Visit <http://www.grants.gov/> for additional information
- Estimated \$900,000 available
- All funds must be matched at least equally (dollar for dollar) with non-federal source funds
- Eligibility: any non-federal organization operating within the U.S. or its territories; individuals are not eligible
- Urban & community forestry: “the art, science, and technology of managing trees, forests, and natural systems in and around cities, suburbs, and towns for the health and well-being of all people”
- The National Urban & Community Forest Advisory Council only supports urban and community forest projects that have national or widespread application and impact
- Local tree planting projects, capital improvements to property of any ownership, and/or projects that only have local impact and applicability will not be considered
- Innovation includes new, unfamiliar, or uncommon efforts to address any or all of the following priority areas
- 4 strategic priority issues:
 - Energy Conservation
 - Provide results that illustrate the positive effect of trees upon energy demand and that reinforce the overall public understanding of those benefits
 - Include non-traditional partners and substantive partnership with energy providers, builder or development organizations, and urban planners
 - Climate Change
 - See FOA for additional information
 - Public Health
 - See FOA for additional information
 - Green Infrastructure Assessment
 - Green infrastructure is a strategically planned and managed network of wilderness, parks, greenways, conservation easements, and working lands with conservation value that supports native species, maintains natural ecological processes, sustains air and water resources, and contributes to the health and quality of life for America’s communities and people
 - Facilitate effective, cooperative federal-state-municipal actions that encourage landscape scale conservation

- Council is looking for a road map that describes how various agency and department programs interest, overlap, or support each other in green infrastructure planning
- Academic institutions and policy research organizations are encouraged to apply

Building Healthy Communities Grant Program

NOT a federal grant opportunity

- Visit <http://corporate.homedepot.com/wps/portal/grants/> for additional information
- Grants available for up to \$2,500 for registered 501(c)(3) organizations, public schools, or tax-exempt public service agencies in the U.S. that are using volunteers to improve the physical health of their community
- Grants will be in the form of Home Depot gift cards to be used to purchase tools or materials
- Grants for community improvement projects that include construction or refurbishment of affordable or transitional housing, building/rebuilding, painting, refurbishing, increasing energy efficiency or sustainability, landscaping, planting trees, community facility improvements, development and/or improvement of green spaces
- Grants must support work completed by community volunteers in the U.S.
- Projects must be completed within six months of award notification

7th Annual P3 Awards: A National Student Design Competition for Sustainability Focusing on People, Prosperity, and the Planet

- Application due: January 4, 2010
- See <http://www.epa.gov/P3/> or <http://www.grants.gov/> for additional information
- 40 awards expected for Phase 1; 6 awards expected for Phase 2
- \$850,000 available for all awards
- Up to \$10,000 available per Phase 1 grant
- Can apply for Phase 2 funding upon successful completion of Phase 1 for up to \$75,000 for 2 more years
- Eligible applicants: Public non-profit and private non-profit institutions, limited to degree-granting institutions of higher education located in U.S.
 - Partnerships with industry or nongovernmental agencies are strongly encouraged
 - Students on teams must be enrolled in the institution
 - Eligible non-profits also include research institutions, corporations, or foundations that are part of a U.S. institution of higher education
 - Interdisciplinary teams, including representatives from multiple engineering departments and/or departments of chemistry, architecture, industrial design, business, economics, policy, or social science are strongly encouraged
- Purpose: to research, develop, and design solutions to real world challenges involving the overall sustainability of human society
- P3 program will generate research outputs in the form of innovative, inherently benign, integrated, and interdisciplinary designs that will advanced the scientific, technical, and policy knowledge necessary to further the goals of sustainability
- Desired outcomes: to maintain or improve human health, advance economic competitiveness, and protect and preserve the environment by effectively and efficiently using water, materials, and energy, and minimizing the generation, emission, and use of hazardous substances
- Phase 1 research areas for students:
 - Identify the technical challenge to sustainability that their design will address
 - Discuss how the identified technical challenge relates to people, prosperity, and the planet
 - Propose a scientifically-based design approach to address the challenge
 - Propose an approach to communicate relevant data and info to users and stakeholders
- Projects must be science-based research or development
- See FOA for research plan requirements
- Must address 1 or more research areas:

- *Energy – FOA #: EPA-G2010-P3-Q1*
 - Reduction in air and water emissions through innovative strategies for energy production and energy distribution; energy conservation; inherently benign energy through green chemistry, green engineering
- *Built Environment – FOA # EPA-G2010-P3-Q2*
 - Green building designs; transportation and mobility strategies; smart growth approaches that result in environmental benefits such as air emission reductions or water quality improvements
- *Materials & Chemicals – FOA # EPA-G2010-P3-Q3*
 - Materials conservation; renewable feedstock; materials and chemicals that are inherently benign; energy-, water- and material-efficient through their full life cycles; recovery and reuse of materials through product, process, or system design
- *Agriculture – FOA # EPA-G2010-P3-Q5*
 - Productive use of agricultural wastes

Environmental Justice Small Grants Program

Funding #: EPA-OECA-OEJ-10-01

- Application due date: January 8, 2010
- Visit <http://www.epa.gov/compliance/environmental/justice/grants/ej-smgrants.html> for additional information
- Purpose of program: to “support and empower communities that are working on local solutions to local environmental and/or public health issues”
- \$1 million available for 1-4 grants per region, up to \$25,000 per award
- Eligible applicants:
 - 501(c)(3) organizations
 - Non-profit organizations recognized by the state, territory, or tribe
 - City, township, or county government
 - Native American tribal government
 - AND must be located within the same state, territory, or tribe that the proposed project will be located
- Non-profit organizations exclude:
 - Colleges & universities
 - Hospitals
 - State governments
 - Quasi-governmental entities (water districts, utilities)
 - National, state, or state-wide organizations with chapters
 - Non-profits organizations that engage in lobbying activities as defined in Section 3 of the Lobbying Disclosure Act of 1995
 - Non-profit organizations that are excluded from coverage under paragraph 5 of OMB Circular A-122
- Applicant must be able to demonstrate that it has worked directly with or provided services to an affected community that is disproportionately impacted by environmental harms and/or public health issues identified in the proposal
- Top 5 priorities:
 - Improving air quality
 - Managing chemical risks
 - Cleaning up hazardous waste disposal sites
 - Reducing greenhouse gas emissions, including:
 - Green building & infrastructure design
 - Smart growth
 - Equitable development
 - Energy conservation/energy efficiency in homes and commercial buildings
 - Weatherization programs
 - Home residence retrofits
 - Water efficiency
 - Use of renewable energy
 - Protecting America’s water

- Each project must include activities that are authorized by 2 or more of the following environmental statutes (must be clearly identified in the work plan)
 - Clean Water Act
 - Safe Drinking Water Act
 - Solid Waste Disposal Act
 - Clean Air Act
 - Toxic Substances Control Act
 - Federal Insecticide, Fungicide, & Rodenticide Act
 - Marine Protection, Research, & Sanctuaries Act

Smart Grid Investment Grant Program

FOA # DE-FOA-0000058

- Letter of intent due date (required for each phase in which an applicant intends to submit an application) and application due date:
 - ~~Phase 1: July 16, August 6~~
 - ~~Phase 2: October 23, November 4~~
 - Phase 3: February 10, March 3
- Funding
 - \$3.4 billion expected to be available
 - 2 categories to be funded:
 - Smaller projects in which the federal share is in the \$300,000 to \$20 million range (40% of SGIG funding)
 - Larger projects in which federal share is in the \$20 million to \$200 million range (60% of SGIG funding)
 - Minimum 50% cost share required
- 3 year period of performance
 - DOE expects to complete award of projects by September 30, 2010 and to make awards in October 2009, March 2010, and June 2010
 - Costs of awards must be invoiced and paid by September 30, 2015
- Eligible applicants
 - Electric power companies (investor-owned utilities, municipal utilities, public utility districts, electric cooperatives, regional organizations such as independent system operators, transmission organizations, and national-level utility organizations), state, county, local, or municipal government agencies, universities and colleges, electricity consumers singly or aggregated together (residential, commercial, industrial, and agricultural customer classes), appliance manufacturers, electrical equipment manufacturers, software providers, and commercial and information services providers, and other private companies (retail electricity suppliers, energy services companies, independent power producers, demand response services providers, metering services providers, project developers, electricity marketers, consultants)
 - Federal agencies, including power marketing administrations, TVA, and USPS are eligible in supporting roles only
 - DOE's national laboratories and FFRDCs are ineligible

- Purpose of program: to accelerate the modernization of the nation's electric transmission and distribution systems, and to promote investment in smart grid technologies, tools, and techniques which increase flexibility, functionality, interoperability, cyber-security, situational awareness, and operational efficiency; to enable measurable improvements from accelerated achievement of a modernized electric transmission and distribution system, including:
 - Reliability of the electric power system
 - Electric power system costs and peak demand
 - Consumer electricity costs, bills, and environmental impacts
 - Clean energy development and greenhouse gases
 - Economic opportunities and new jobs
- Topic areas:
 - Equipment manufacturing
 - Customer systems
 - Advanced metering infrastructure
 - Electric distribution systems
 - Electric transmission systems
 - Integrated and/or crosscutting systems
- Eligible projects are required to support or advance one or more of the smart grid functions as listed in EISA Section 1306 (d)
- For eligible investments for SGIG funds, see EISA, Section 1306 (b)
- For non-eligible investments, see EISA, Section 1306 (c)
- Visit <http://www.fedconnect.net/> for additional information

Energy for Sustainability

- Due date: March 10, 2010; full proposal window: February 1 – March 3, 2010
- Visit http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=501026 for additional information
- Program supports fundamental research and education in energy production, conversion, and storage, and is focused on energy sources that are environmentally friendly and renewable
- Sources of sustainable energy: sunlight, biomass, wind/wave, & geothermal
- Research that generates enabling science and technologies for more efficient hydrogen generation and storage is supported by the program
- Critical components of fuel cells requiring additional research include catalysts and electrolytes. Development requires fundamental research on the reaction and transport mechanisms at the catalyst and membrane electrolyte interface. Advances needed to address challenges in efficiency, durability, power density, and environmental impacts. Engineering aspects of fuel cell design and operation require study in water and thermal management.
- For wind projects: required fundamental knowledge of the interaction of wind with the blade structure
- For solar projects: new materials and novel fabrication techniques for solar energy conversion are supported by the program
- Duration: 1-3 years
- Average annual award size: \$100,000
- Small equipment proposals of less than \$100,000 will be considered